

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

ATTY. DOCKET NO.  
500.36179CC2

SERIAL NO. 10/639445  
Rule 53(b) of 10/028,425

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

APPLICANT  
NAKAGAWA et al.

FILING DATE  
August 13, 2003

GROUP  
Unassigned

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HK	4 7 7 9 1 9 2	10/88	TORII et al.	712	8	
	5 2 0 3 0 0 3	4/93	DONNER	713	322	
	6 2 3 0 2 5 5	5/01	ASGHAR et al.	712	32	
	5 2 9 3 5 8 6	3/94	YAMAZAKI et al.	345	519	
	5 3 1 5 7 0 0	5/94	JOHNSTON et al.	345	502	
	5 7 9 4 0 6 7	8/98	KADOWAKI	712	35	
	6 3 5 3 8 6 3	3/02	NAKAGAWA et al.	710	5	
	5 3 1 1 4 5 8	5/94	COVEY	708	603	
	5 5 1 9 8 7 9	5/96	CARMON	712	35	
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**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
5 1 2 8 2 8 0	5/93	JP			
4 2 1 9 0 4 5	8/92	JP			
4 1 6 7 1 6 8	6/92	JP			
3 0 8 0 6 8 9	8/91	JP			
2 2 9 7 5 9 4	12/90	JP			
6 0 2 0 4 0 2 9	10/85	JP			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

HK	1	"DSP56116 Digital Signal Processor User User's Manual" Issued by Motorola Inc., pp. 1-1 to 5-16, 1990.
HK	2	Nikkei Electronics Vol. 463, December 26, 1998 (Nikkei BP Corp.), Osamu Kobayashi and other, "DSP which spreads its application scope on the full-scale debut of 32-bit floating points" pp. 133-146, Figs. 5, 12.
HK	3	"Latest Information on GSM/Systems, Terminals and Services", Seminar materials, Japan Industrial Technological Center, May 18 and 19, 1965 and "Development Trend of GSM telephone Terminal Devices", pp. 118-130, Japan Phillips.

EXAMINER *Harold R.* DATE CONSIDERED *6/22/2005*

EXAMINER: Initial if citation is considered, draw line through citation if not in conference and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
NK	6 0 4 7 3 5 8	4/00	JACOBS	711	133	
	5 3 9 2 4 4 8	2/95	FRANKEL et al.	712	35	
	4 7 9 1 5 9 0	12/98	KU et al.	708	404	
	5 5 6 7 9 0 0	10/96	HIGASHI	84	602	
	5 5 9 2 6 7 7	1/97	INTRATER et al.	712	34	
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	5 7 6 8 6 1 3	6/98	ASGHAR	712	35	
	5 8 6 7 7 2 6	2/99	OHSUGA et al.	712	32	
	5 8 8 4 0 9 2	3/99	KIUCHI et al.	712	35	
NK	5 3 1 1 4 5 8	5/94	HAINES et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION
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0 4 4 2 0 4 1	8/91	EP			
0 4 6 5 0 5 4	1/92	EP			
40 7 0 1 3 5 6 1	1/95	JP			
NK 9 7 1 4 0 9 3	4/97	WO			

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NK 4	"Hitachi Single-Chip RISC Microcomputers SH7032, SH7034 Hardware Manual", third edition, March 1964, issued by Hitachi, Ltd.
NK 5	"A diversified application study for memory IC" Interface No. 123, August 1987 (CQ Publishing).
NK 6	"Super RISC Engine SH7604 Hardware Manual", First Edition, September 1994, issued by Hitachi, Ltd.

EXAMINER

*Andel G.*

DATE CONSIDERED

8/22/2005

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SERIAL NO. *10/634*  
Rule 53(b) of 10/028,425

APPLICANT  
NAKAGAWA et al.

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**GROUP**  
**Unassigned**

[illegible][illegible]

HK	7	W. Patrick Hays, "A Programmable Digital Signal Processor with 32b Floating Point Arithmetic", 1985 IEEE International Solid-State Circuits Conference DIGEST OF TECHNICAL PAPERS, pp. 92-93, 318
n/c	8	R. Meyer, et al., Convolution Algorithms on DSP Processors, 1991, pp. 2193-2196.

DATE CONSIDERED

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SHEET 1 OF 1

<b>FORM PTO-1449</b> U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> <b>500.36179CC2</b>	<b>SERIAL NO.</b> <b>10/639,445</b>
	<b>APPLICANT</b> <b>Tetsuya NAKAGAWA et al.</b>	
	<b>FILING DATE</b> <b>August 13, 2003</b>	<b>GROUP</b> <b>Unassigned</b>

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HK	5,768,613	6-1998	ASGHAR	712	35	

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						YES	NO
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	JP 61-150061	7-1986	Japan			X	
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	"Exploration of Multimedia Trend and Strategies Underlying SH7600 series", pp. 32-33, Nikkei Electronics, May 23, 1994, Vol. 608, Nikkei Business Publications, Inc. (with translation)

<b>EXAMINER</b> <i>Harold K.</i>	<b>DATE CONSIDERED</b> <i>6/22/2005</i>
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(Form PTO-1449 [6-4])